

PATENT ABSTRACTS OF JAPAN

DEC 19 2006

(11)Publication number : 2005-124198

(43)Date of publication of application : 12.05.2005

(51)Int.Cl.

H03M 13/01

G06F 11/00

H04L 1/00

(21)Application number : 2004-298490

(71)Applicant : HEWLETT-PACKARD DEVELOPMENT CO
LP

(22)Date of filing : 13.10.2004

(72)Inventor : WEISSMAN ITSCHAK
ORDENTLICH ERIK
SEROUSSI GADIEL
WEINBERGER MARCELO
VERDU SERGIO

(30)Priority

Priority number : 2003 688520

Priority date : 17.10.2003

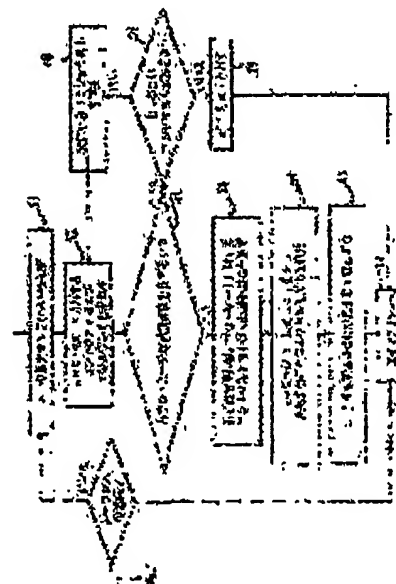
Priority country : US

(54) METHOD FOR CORRECTING NOISE ERROR IN DIGITAL SIGNAL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an apparatus and method for generating a processed digital signal, with less signal damage than a received digital signal.

SOLUTION: The apparatus and method is disclosed for processing a received signal [22] damaged by a channel [20] to generate a processed signal [23] with less signal damage than the received signal [22]. An apparatus [10] stores the received signal [22], information for designating a probability wherein the symbol of a value I is converted into the symbol of a value J by the channel [20], and information for designating a signal deterioration function for measuring signal deterioration that occurs when the symbol of the value I is replaced with the symbol of the value J. A controller [11] replaces each symbol of the value I with the symbol of the value J in context [24] of the symbol in the received signal [22]. This value J minimizes all the signal deterioration of the processed signal [23] relating to a signal [21] in which there is no basic noise, estimated via the statistics observed in the context [24].



LEGAL STATUS

[Date of request for examination]

13.10.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

DEC. 19. 2006 4:52PM HP LEGAL
[Date of final disposal for application]

NO. 3199 P. 4

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]